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_EDMUND J SEASE ZARLEY MCKEE THOMTE VOORHEES & SEASE 801 GRAND AVENUE SUITE 3200 DES MOINES IA 50309

KULKOSKY,P	
EXA	EXAMINER 5
1615	
ART UNIT	PAPER NUMBER
	0°7/01/01 /-

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks





Application No. 09/437,449

Applicant(s)
Vijav Kumar

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Office Action Summary	P. Kulkesky	Group Art Unit 1615
—The MAILING DATE of this communication appear	ars on the cover sheet benea	ath the correspondence address—
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO THIS COMMUNICATION.	TO EXPIRE <u>ON</u> M	MONTH(S) FROM THE MAILING DATE
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a r If NO period for reply is specified above, such period shall, by default Failure to reply within the set or extended period for reply will, by state 	reply within the statutory minimum o t, expire SIX (6) MONTHS from the	f thirty (30) days will be considered timely. mailing date of this communication .
Status		
☐ Responsive to communication(s) filed on	·	
☐ This action is FINAL.		
☐ Since this application is in condition for allowance excep accordance with the practice under Ex parte Quayle, 193		ion as to the merits is closed in
Disposition of Claims		
		is/are pending in the application.
Of the above claim(s)		
☐ Claim(s)		
☐ Claim(s)————————————————————————————————————		
		•
□ Claim(s) 1 - 29 ☑ Claim(s)		are subject to restriction or election
		requirement.
Application Papers		
☐ See the attached Notice of Draftsperson's Patent Drawin	•	
☐ The proposed drawing correction, filed on		sapproved.
☐ The drawing(s) filed on is/are object	cted to by the Examiner.	
☐ The specification is objected to by the Examiner.		
☐ The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119 (a)-(d)		
 □ Acknowledgment is made of a claim for foreign priority u □ All □ Some* □ None of the CERTIFIED copies of □ received. 	, ,,,,	peen
☐ received in Application No. (Series Code/Serial Numb	per)	
		1.7.9(a))
$\ \square$ received in this national stage application from the Int		1 7.2(a)).
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Office Action Summary

Part of Paper No.

Application/Control Number: 09/437,449

Art Unit: 1615

Claims 1-29 are generic to a plurality of disclosed patentably distinct species comprising polymer complexes in which polyvinyl pyrrolidone is combined with a carboxylic group - containing polymer. Provisional election is mandatory of one type of polymer which possesses a distinctive chemical structure. For example, claim 3 acrylics or all gums of this claim constitute separately species. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Ms. Wendy Marsh on January 24, 2001 a provisional election was made with traverse to prosecute the invention of an elected species consisting of acrylic and polyvinylacetate copolymers, claims 1-29 read upon the elected species. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-29 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claims 3, 18 musts be limited to the elected polymers.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gupta et al Drug Development and industrial pharmacy (1994) or M.A. Elegakey et al P.P.S. 434-440 or Takayana Chem. Pharm. Bull. PPS.4921 - 4926.

The combination of polyvinylpyrrolidone and carboxylic polymer is known in the art for properties of the complexes formed by same.

The examples in the specification wherein PVAP - PVP, drug complexes are formed are considered to be unobvious from the cited Prior Art disclosures. The claims do not clearly define a "complex" of PVAP/PVP, however, and may be physically equivalent to a mixture of ingredients in which PVAP is not complexed, but is added as an auxiliary component, i.e., as a plasticizer. A PVP mixture with PVAP as an additive would be obvious in view of the known plasticizing properties of PVAP. The PVAP - PVP complexes of the working examples are considered to be unobvious form the cited Prior Art information. The references clearly provide motivation for use of a variety of drugs encompassed in a PVP acrylic polymer matrix. Ibuprofen

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would be obvious to those skilled in the art to use as an active in the preparations of the cited Prior Art.

Claims 1-29 are rejected under 35 U.S.C. 112, paragraph 2.

A complex such as is formed by the process of the working examples is not required in the claims. The physical structure of the "complex" as is reported by spectroscopic data is not included as a limitation, but is critical to the applicants' disclosed view of the invention (see pages 26-30).

The term "complex" is non-descriptive of the drug containing PVP/PVAP product which which is disclosed as possessing required release and physical properties.

Claims 1-28 are rejected under 35 U.S.C. 112, par. 1.

The claims are not supported for the scope of drug which can be encapsulated in the complex.

Iboprofen and other actives of similar solubility and properties are presumed to be useful, but the specification does not explain the forces between drug and complex such as bonding, etc. which would enable the use of an unlimited number of species unrelated in chemical structure to ibuprofen. The drug, PVP and acrylic or phthalate copolymer are suggested to be limited to definite amounts of same in a structure of definite form. For example, a form as would be represented in a drawing.

References (A), (U) and (V) are cited of interest.

Kulkosky/LR

PETER F. KULKOSKY PRIMARY EXAMINER